NASPI Work Group Meeting
Control Room Solutions Task Team Update

April 14, 2021

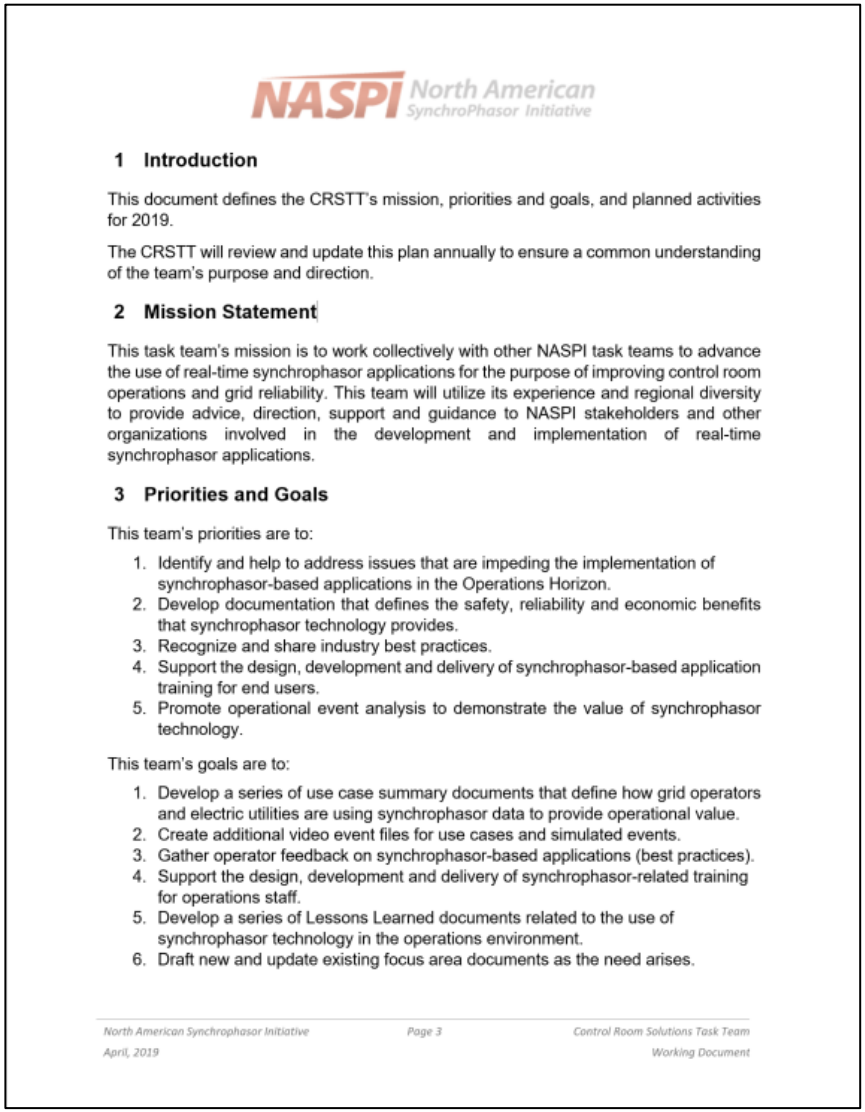
Agenda

- CRSTT Work Plan Updates
- System Inertia Monitoring Ops Use Case
- Time-Synchronized Measurements Training

CRSTT Work Plan

Summary of Updates:

- Replace “synchrophasor” with “time-synchronized measurements” throughout for consistency with recent NASPI documentation.
- Incorporate new language to highlight our desire to work directly with grid operators and electric utilities to achieve or goals and objectives.
- Add vendors and research institutions to operational use case activities.



NASPI North American SynchroPhasor Initiative

1 Introduction

This document defines the CRSTT's mission, priorities and goals, and planned activities for 2019.

The CRSTT will review and update this plan annually to ensure a common understanding of the team's purpose and direction.

2 Mission Statement

This task team's mission is to work collectively with other NASPI task teams to advance the use of real-time synchrophasor applications for the purpose of improving control room operations and grid reliability. This team will utilize its experience and regional diversity to provide advice, direction, support and guidance to NASPI stakeholders and other organizations involved in the development and implementation of real-time synchrophasor applications.

3 Priorities and Goals

This team's priorities are to:

1. Identify and help to address issues that are impeding the implementation of synchrophasor-based applications in the Operations Horizon.
2. Develop documentation that defines the safety, reliability and economic benefits that synchrophasor technology provides.
3. Recognize and share industry best practices.
4. Support the design, development and delivery of synchrophasor-based application training for end users.
5. Promote operational event analysis to demonstrate the value of synchrophasor technology.

This team's goals are to:

1. Develop a series of use case summary documents that define how grid operators and electric utilities are using synchrophasor data to provide operational value.
2. Create additional video event files for use cases and simulated events.
3. Gather operator feedback on synchrophasor-based applications (best practices).
4. Support the design, development and delivery of synchrophasor-related training for operations staff.
5. Develop a series of Lessons Learned documents related to the use of synchrophasor technology in the operations environment.
6. Draft new and update existing focus area documents as the need arises.

System Inertia Monitoring Ops Use Case

Title: Use of Time-Synchronized Measurements for System Inertia Monitoring

Primary Objectives:

- Identify traditional methods used by grid operators and electric utilities to monitor system inertia.
- Consider significant changes taking place as a result of grid modernization.
- Explain how time-synched measurements can be used to monitor actual inertia levels.
- Describe how these measurements can be used by System Ops staff to manage risk and identify potential stability issues before they occur.

Time-Synched Measures Training Update

2019: TRS and PNNL collaborated to develop a *Use of Time-Synchronized Measurements in the Real-time Operations Horizon* training course (8 CEH).

2020: TRS and PNNL began developing a *Time-Synchronized Measurements Simulation Training* course (8 CEH).

2021: TRS and PNNL to finish developing *Time-Synchronized Measurements Simulation Training* course and create a "train-the-trainer" video for interested parties.

CRSTT – Primary Contacts

Name: Michael Cassiadoro

Email: mcassiadoro@totalreliabilitysolutions.com, Phone: 360-836-9008

Name: Jim Kleitsch

Email: jkleitsch@atcllc.com, Phone: 608-877-8102

If you want to be added to the CRSTT or DisTT email list or have questions about the NASPI website please contact teresa.carlon@pnnl.gov